ORDER NO. HAD8704084C8

Service Manual

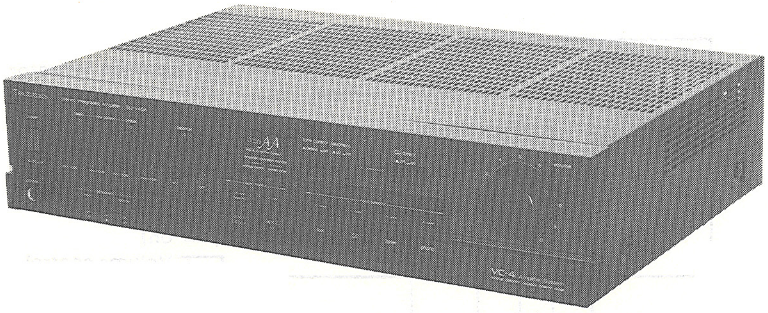
Stereo Integrated Amplifier

Amplifier

SU-V45A

Color

(S) ....Silver Type
(K) ....Black Type



Area

Color	Area
(S)(K)	(E) ....Continental Europe.
(S)(K)	(Ei) ....Italy.
(S)(K)	(EG)...........F.R.Germany.
(S)(K)	(EB)...........Belgium.
(S)(K)	(EK)...........United Kingdom.
(S)(K)	(EF)...........France.
(S)(K)	(EH)...........Holland.
(S)(K)	(XL)...........Australia.
(S)(K)	(XA)...........Asia,Latin America,Middle Near East,Africa and Oceania.

SPECIFICATIONS
(DIN 45 500)

■ AMPLIFIER SECTION

1 kHz continuous power output	
both channels driven	2×85 W (4Ω)
20 Hz~20 kHz continuous power output	
both channels driven	2×45 W (8Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.003% (8Ω)
rated power at 1 kHz	0.005% (4Ω)
	0.0009% (8Ω)
half power at 20 Hz~20 kHz	0.003% (8Ω)
half power at 1 kHz	0.002% (4Ω)
	0.0008% (8Ω)
Intermodulation distortion	
rated power at 250 Hz: 8 kHz=4:1, 8Ω	0.007%
rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω	0.007%
Power bandwidth	
both channels driven, −3 dB	5 Hz~60 kHz (4Ω, 0.08%)
	5 Hz~65 kHz (8Ω, 0.05%)
Residual hum and noise	0.8 mV
Damping factor	30 (4Ω), 60 (8Ω)
Input sensitivity and impedance	
PHONO	2.5 mV/47 kΩ
TUNER, CD, AUX, TAPE 1/DA TAPE, TAPE 2/EXT	150 mV/22 kΩ
PHONO maximum input voltage (1 kHz, RMS)	160 mV
S/N	
rated power (4Ω)	
PHONO	76 dB (81 dB: IHF, A)
TUNER, CD, AUX, TAPE 1/DA TAPE, TAPE 2/EXT	91 dB (100 dB: IHF, A)
Frequency response	
PHONO	RIAA standard curve
	±0.8 dB (30 Hz~15 kHz)
TUNER, CD, AUX, TAPE 1/DA TAPE, TAPE 2/EXT	5 Hz~120 kHz (−3 dB)
	+0, −0.2 dB (20 Hz~20 kHz)
Tone controls	
BASS	50 Hz, +10 dB~−10 dB
TREBLE	20 kHz, +10 dB~−10 dB
Loudness control (volume at −30 dB)	50 Hz, +9 dB
Output voltage	
TAPE 1, 2 REC OUT	150 mV
Channel balance, AUX 250 Hz~6,300 Hz	±1 dB
Channel separation, AUX 1 kHz	60 dB
Headphones output level and impedance	450 mV/330Ω
Load impedance	
MAIN or REMOTE	4Ω~16Ω
MAIN and REMOTE	8Ω~16Ω

■ GENERAL

Power consumption	420 W
Power supply	
For United Kingdom and Australia	AC 50 Hz/60 Hz, 240 V
For continental Europe	AC 50 Hz/60 Hz, 220 V
For others	AC 50 Hz/60 Hz, 110 V/127 V/220 V/240 V
Dimensions (W×H×D)	430 × 104 × 290 mm
	(16-15/16" × 4-3/32" × 11-7/16")
Weight	6.7 kg (14.8 lb.)

Notes:

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ CONTENTS

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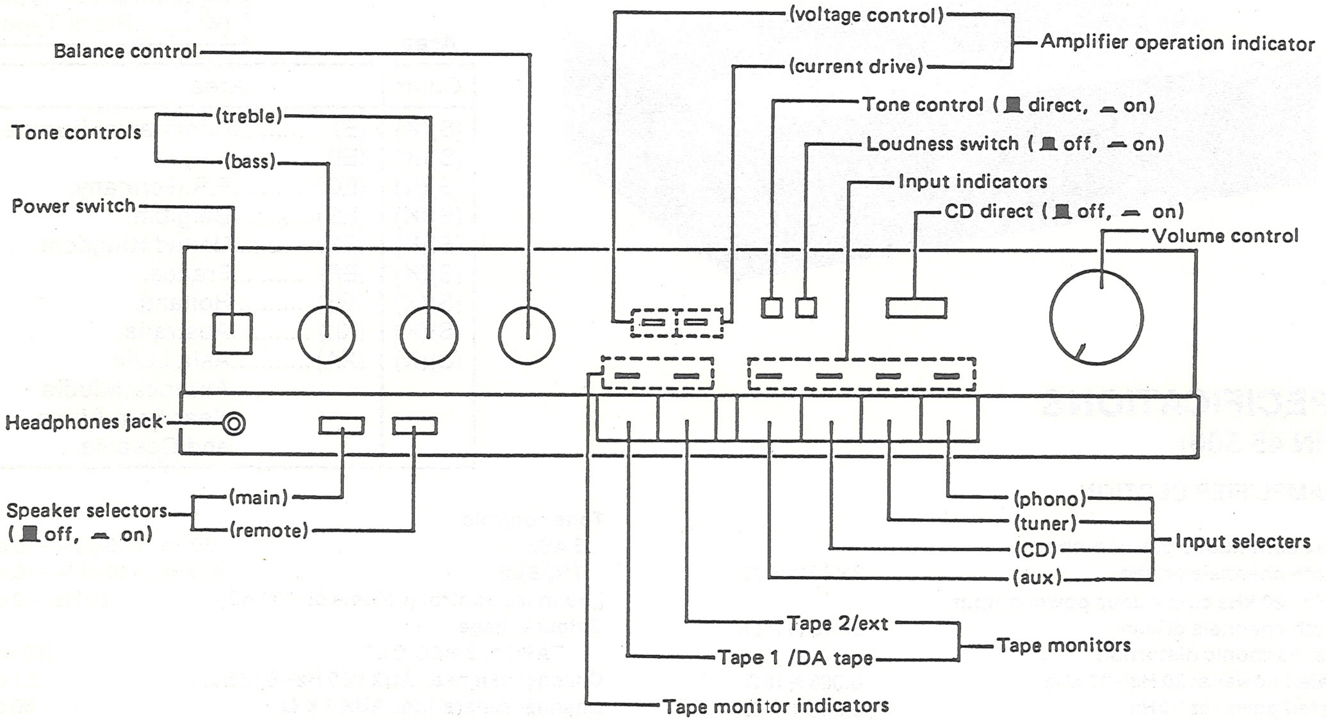
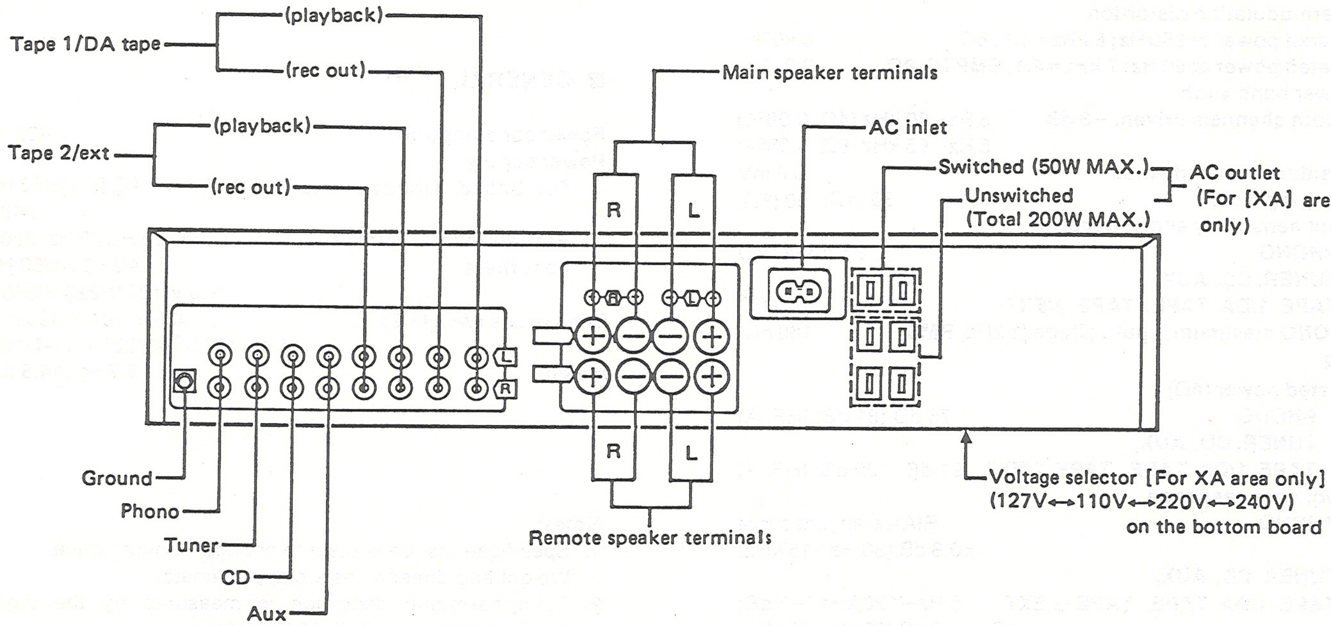
■ LOCATION OF CONTROLS



Balance control
Tone controls
(treble)
(bass)
Power switch
Headphones jack
Speaker selectors (■ off, ▬ on)
(main)
(remote)
(voltage control)
(current drive)
Amplifier operation indicator
Tone control (■ direct, ▬ on)
Loudness switch (■ off, ▬ on)
Input indicators
CD direct (■ off, ▬ on)
Volume control
(phono)
(tuner)
(CD)
(aux)
Input selecters
Tape 2/ext
Tape 1 /DA tape
Tape monitors
Tape monitor indicators



Tape 1/DA tape
(playback)
(rec out)
Tape 2/ext
(playback)
(rec out)
Main speaker terminals
R
L
AC inlet
Switched (50W MAX.)
Unswitched (Total 200W MAX.)
AC outlet (For [XA] area only)
Ground
Phono
Tuner
CD
Aux
Remote speaker terminals
Voltage selector [For XA area only] (127V↔110V↔220V↔240V) on the bottom board

- The power supply for this unit varies depending upon the areas. Also, the parts used for power supply are different. So, refer to the circuit diagram and replacement parts list.

* [XA] area is provided with voltage selector and AC outlets.
* 240V (50/60Hz) for Australia and United Kingdom.
* 220V (50/60Hz) for Continental Europe.
* 110V/127V/220V/240V (50/60Hz) for other [XA] area.
* Phono input capacitance is about 100pF.

Suggestions

- If noise is very annoying while listening to an FM or AM broadcast, switch OFF the video disc player, compact-disc player and turntable.
- Switch OFF the video disc player power if noise is excessive while listening to an audio tape, compact disc or regular phono disc.

Notes:

- To record sounds from a compact disc, press the input selector marked "CD".
  The compact-disc-direct switch is for listening only; it cannot be used to select the compact disc as a recording source.
- Do not press the left tape-monitor selector to the "tape 1/DA tape" position while two tape decks are being used for recording or while tape deck 2 is being used for recording.
  This will cause interruptions in the sound and change the recorded signal.

PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted" , or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

BEFORE REPAIR AND ADJUSTMENT

(1) Turn off the power supply. Using a 10Ω, 5W resistor, shortcircuit both ends of power supply capacitors (C503, C504, 6800μF) in order to discharge the voltage.

(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110V/127V/220V/240V.

Power supply voltage	AC110V	AC127V	AC220V	AC240V
Consumed current 50/60Hz	260 ~ 380mA	230 ~ 350mA	110 ~ 230mA	80 ~ 200mA

DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
SOME CHASSIS COMPONENTS MAY HAVE SHARP EDGES.
BE CAREFUL WHEN DISASSEMBLING AND SERVICING.

Ref. No. 1 — **How to remove the cabinet**

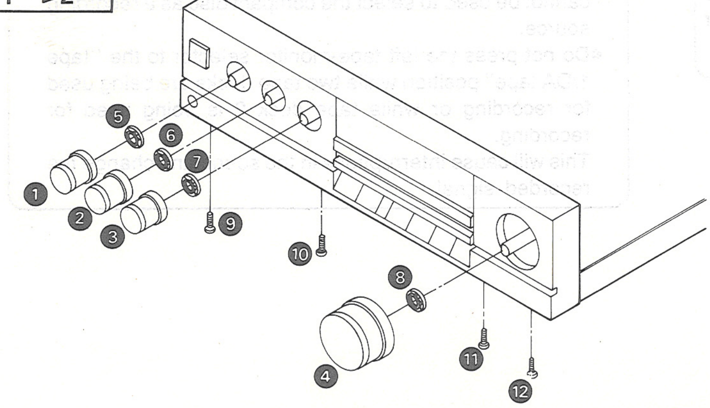
Procedure 1

- ● Remove the 5 screws.

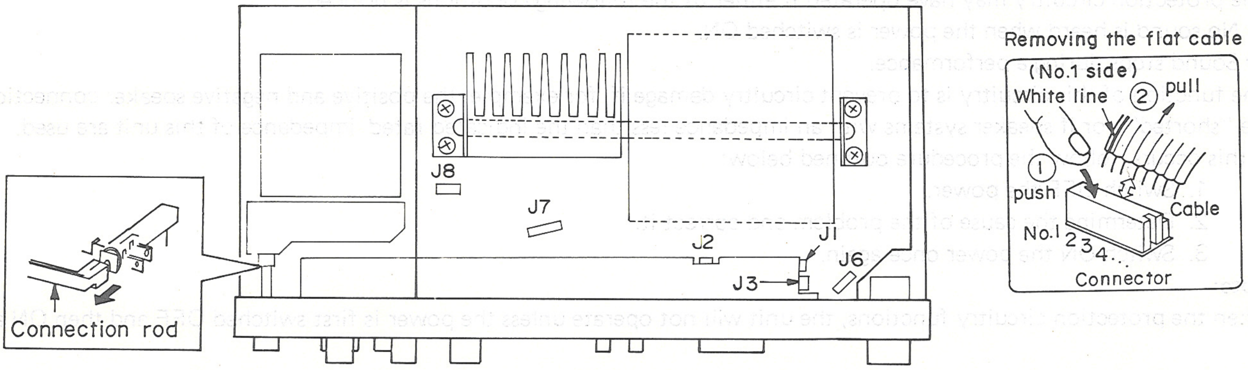
Ref. No. 2 — **How to remove the front panel**

Procedure 1 →2

1. Remove the 4 knobs (❶ ~ ❹).
2. Remove the 4 nuts (❺ ~ ❽).
3. Remove the 4 screws (❾ ~ ⓬).
4. Remove the connection rod.
5. Remove the connector (J1, J2, J3, J8).
6. Remove the flat cable (J6, J7).



①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫

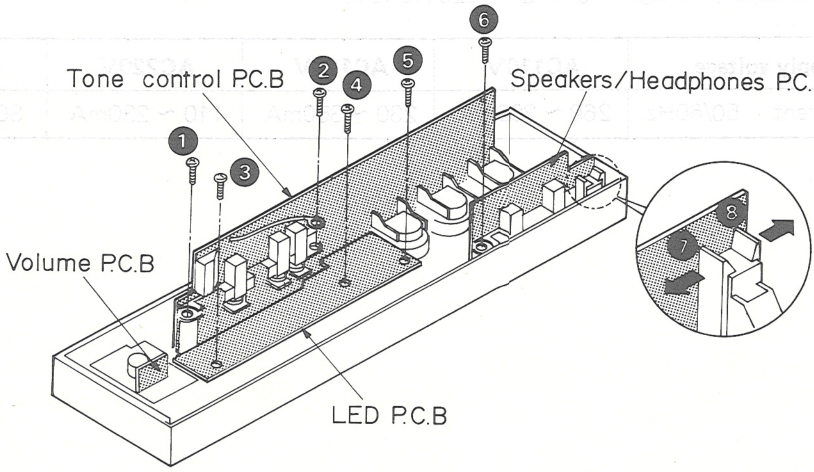


J8
J7
J2
J1
J3
J6
Connection rod
Removing the flat cable
(No.1 side)
White line
② pull
① push
Cable
No.1 2 3 4...
Connector

Ref. No. 3 — **How to remove the P.C.B.**

Procedure 1 →2 →3

1. Remove the 2 screws (❶ , ❷).
2. Remove the tone control and volume P.C.B.
3. Remove the 3 screws (❸ ~ ❺).
4. Remove the LED P.C.B.
5. Remove the 1 screw (❻).
6. Push the 2 tabs (❼ , ❽).
7. Remove the speakers/headphones P.C.B.



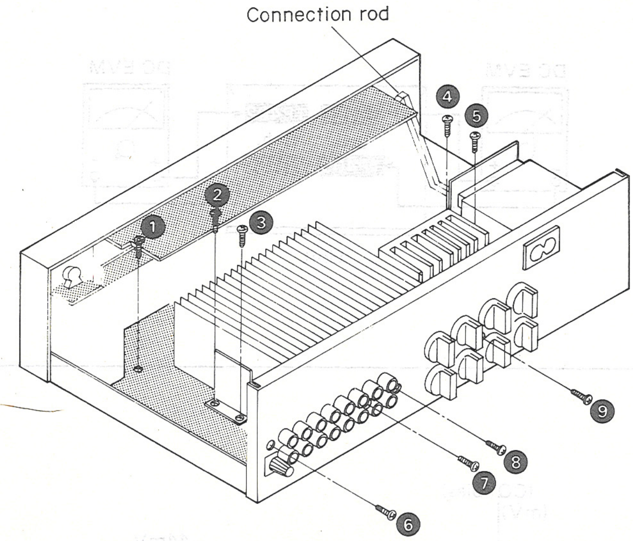
Tone control P.C.B
Speakers/Headphones P.C.B
Volume P.C.B
LED P.C.B
❶
❷
❸
❹
❺
❻
❼
❽

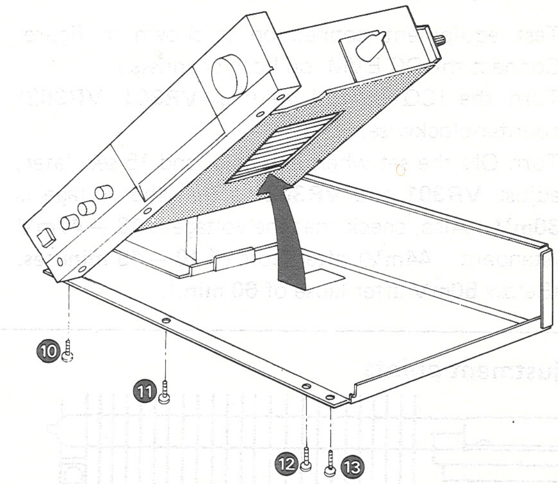
Ref. No.
4

How to remove the main P.C.B.

Procedure
1 → 4

1. Remove the 13 screws (① ~ ⑬).
2. Remove the connection rod.
3. Remove the main P.C.B.


Connection rod
④
⑤
②
③
①
⑨
⑧
⑦
⑥

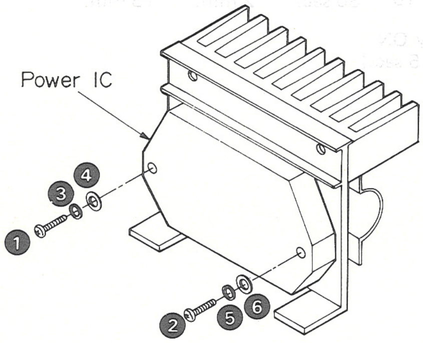


Ref. No.
5

How to remove the power IC.

Procedure
1 → 4 → 5

1. Unsolder the power IC.
2. Remove the 2 screws (①, ②).
3. Remove the 4 washer (③ ~ ⑥).


Power IC
④
③
①
②
⑤
⑥

- When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.

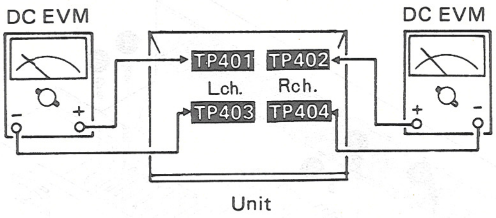
MEASUREMENTS AND ADJUSTMENTS

Control positions and equipment used.

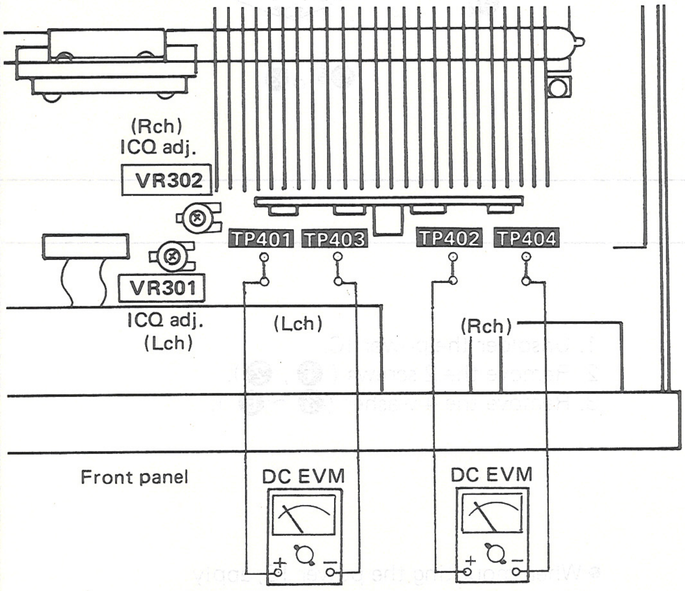
- Volume knob . . . . 0 (Minimum)
- Main speaker selector . . . . off
- Remote speaker selector . . . . off
- DC electronic voltmeter (EVM)

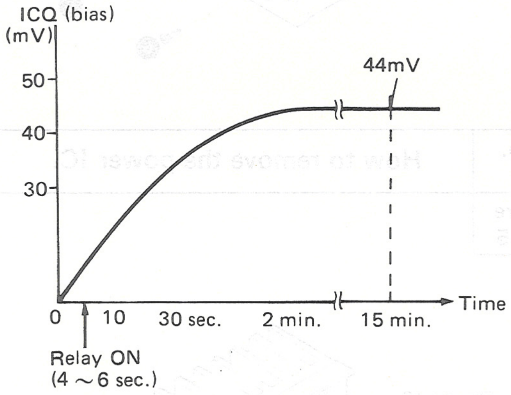
IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. Connect the DC EVM. on both channels.)
2. Turn the ICQ control volume (**VR301**, **VR302**) counter-clockwise.
3. Turn ON the set when it is cold, and 15 sec. later, adjust **VR301** and **VR302** so that the voltage is **30mV**. Also, check that the voltage is **18 – 47mV** (standard: **44mV**) after lapse of **10 – 15 minutes.** (Below **50mV** after lapse of **60 min.**).


DC EVM
DC EVM
TP401
TP402
Lch.
Rch.
TP403
TP404
Unit

- **Adjustment points**


(Rch)
ICQ adj.
VR302
TP401
TP403
TP402
TP404
VR301
ICQ adj.
(Lch)
(Lch)
(Rch)
Front panel
DC EVM
DC EVM



- **Terminal guide of IC, transistor and diodes**

<table>
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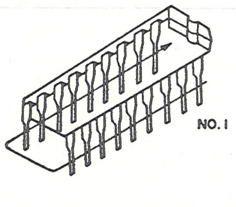
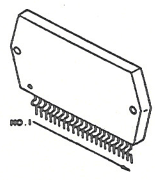
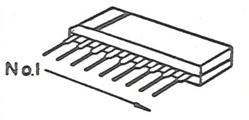
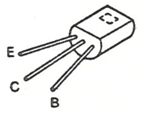
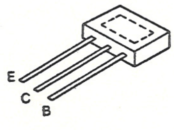
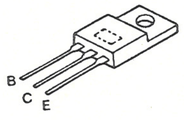
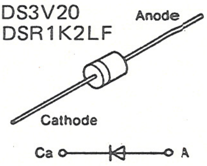
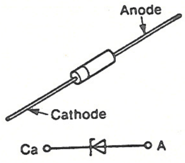
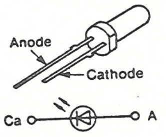
<td colspan="2">
<table><tr><td>SVINJM2043DD</td><td>8pin</td></tr><tr><td>μPC4570C</td><td>8pin</td></tr><tr><td>AN7062N</td><td>18pin</td></tr></table></td>
<td>SVI4004 24pin
 </td>
<td>AN7073 9pin
 </td>
<td>2SA1123, 2SA992
2SC1685, 2SC2631
 </td>
</tr>
<tr>
<td>2SA1309
2SC3311
 </td>
<td>2SA1306
2SC3298
 </td>
<td>MA165, MA162
MA29WA
SVDS3V20
SVDSR1K2LF


Anode
Cathode
Ca
A

</td>
<td>MA4062M
MA2150B


Anode
Cathode
Ca
A

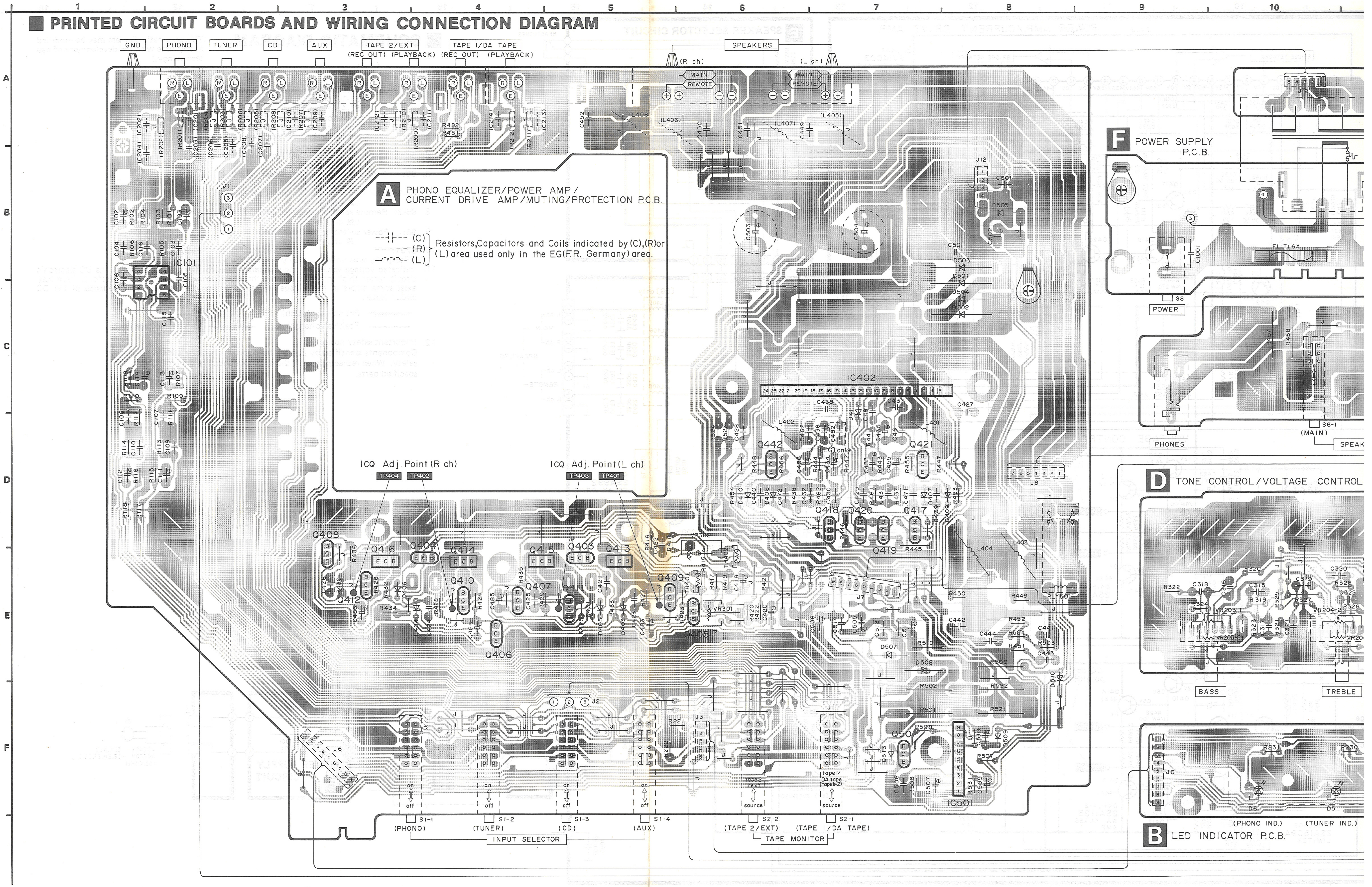
</td>
<td>LN021315P
LN014314PH1
LN064316P


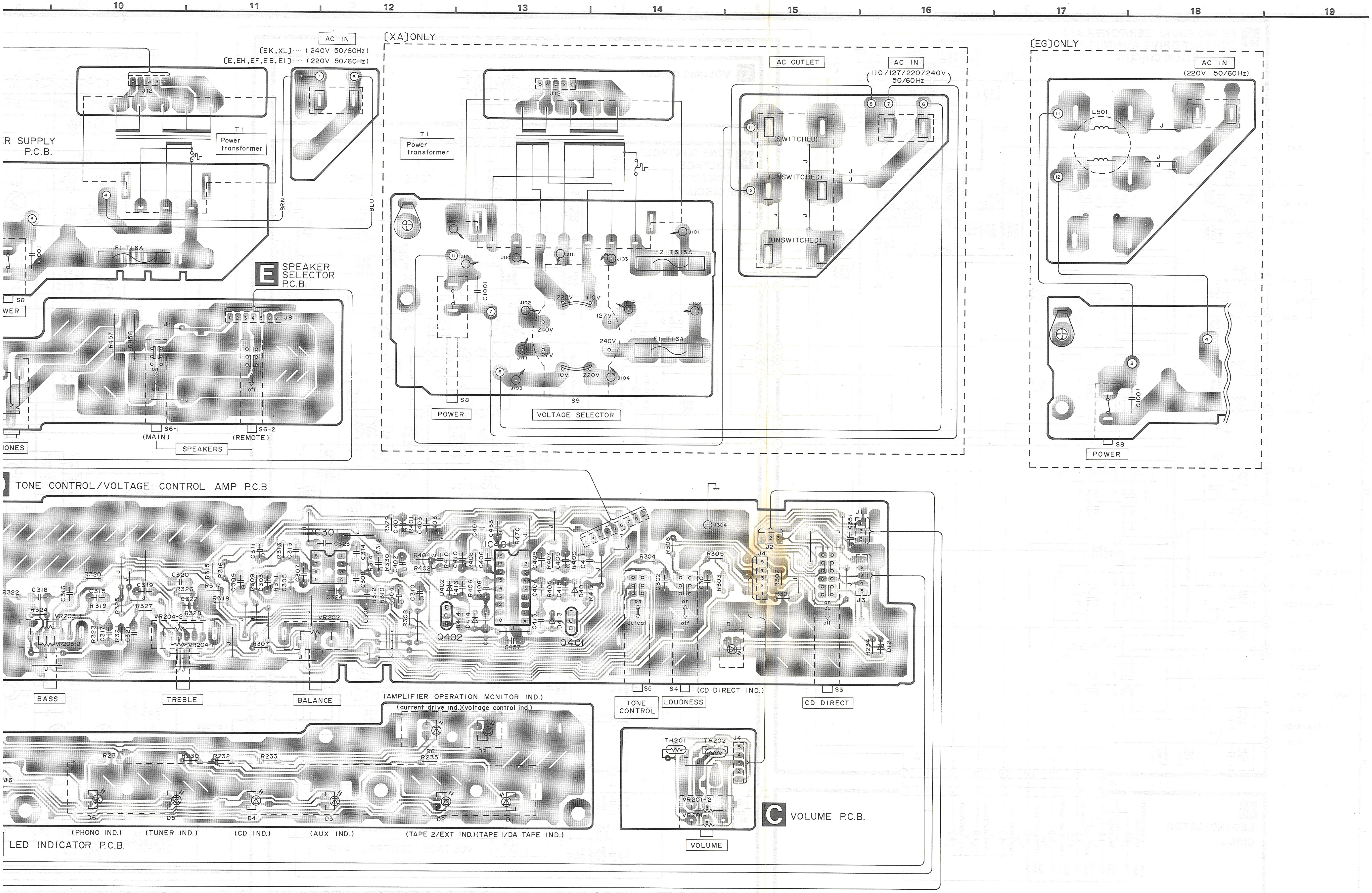
Anode
Cathode
Ca
A

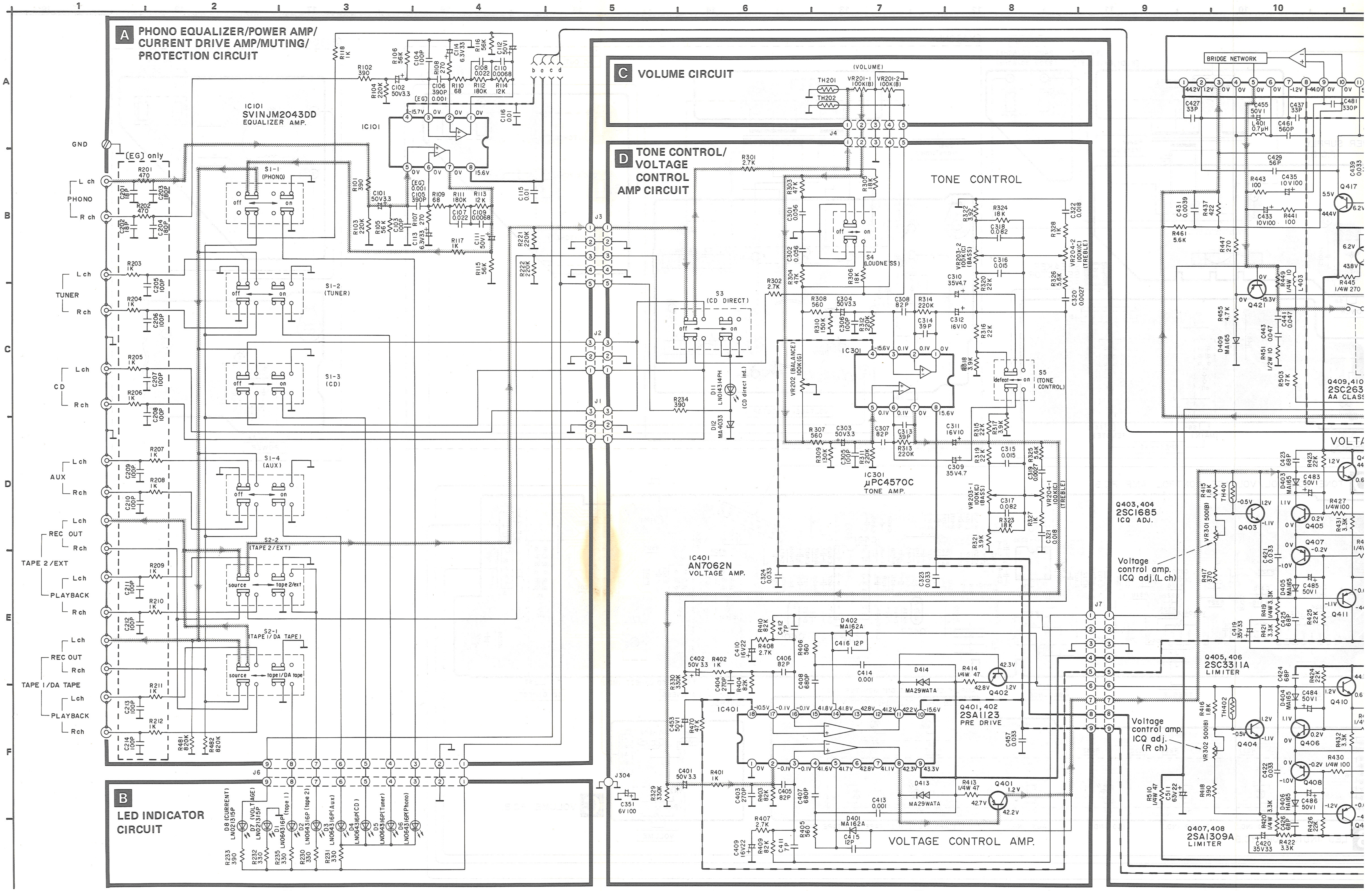
</td>
</tr>
</table>

D

PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
GND
PHONO
TUNER
CD
AUX
TAPE 2/EXT
(REC OUT) (PLAYBACK)
TAPE 1/DA TAPE
(REC OUT) (PLAYBACK)
SPEAKERS
(R ch)
(L ch)
MAIN
REMOTE
A
PHONO EQUALIZER/POWER AMP/
CURRENT DRIVE AMP/MUTING/PROTECTION P.C.B.
(C)
(R)
(L)
Resistors,Capacitors and Coils indicated by (C),(R)or (L) area used only in the EG(F.R. Germany) area.
ICQ Adj. Point (R ch)
TP404
TP402
ICQ Adj. Point (L ch)
TP403
TP401
IC101
IC402
IC501
RLY501
VR301
VR302
J1
J2
J3
J5
J7
J8
J12
Q401
Q403
Q404
Q405
Q406
Q407
Q408
Q409
Q410
Q411
Q412
Q413
Q414
Q415
Q416
Q417
Q418
Q419
Q420
Q421
Q442
Q501
[EG] only
on
off
source
tape2/ext
tape1/DA tape/(tape2)
S1-1
(PHONO)
S1-2
(TUNER)
S1-3
(CD)
S1-4
(AUX)
INPUT SELECTOR
S2-2
(TAPE 2/EXT)
S2-1
(TAPE 1/DA TAPE)
TAPE MONITOR
F
POWER SUPPLY
P.C.B.
F1 T1.6A
S8
POWER
PHONES
S6-1
(MAIN)
SPEAK
D
TONE CONTROL/VOLTAGE CONTROL
BASS
TREBLE
VR203-1
VR203-2
VR204-2
J6
D6
D5
(PHONO IND.)
(TUNER IND.)
B
LED INDICATOR P.C.B.


10
11
12
13
14
15
16
17
18
19
AC IN
(EK,XL) ····· (240V 50/60Hz)
(E,EH,EF,EB,EI) ····· (220V 50/60Hz)
(XA) ONLY
AC OUTLET
AC IN
(110/127/220/240V 50/60Hz)
(EG) ONLY
AC IN
(220V 50/60Hz)
J12
T1
Power transformer
R SUPPLY
P.C.B.
BRN
BLU
F1 T1.6A
C1001
S8
WER
E
SPEAKER SELECTOR P.C.B.
J8
R457
R458
on
off
S6-1
(MAIN)
S6-2
(REMOTE)
SPEAKERS
IONES
J104
J101
J110
J111
J103
J102
F2 T3.15A
220V
110V
127V
240V
F1 T1.6A
S8
POWER
S9
VOLTAGE SELECTOR
(SWITCHED)
(UNSWITCHED)
(UNSWITCHED)
L501
S8
POWER
TONE CONTROL/VOLTAGE CONTROL AMP P.C.B
IC301
IC401
C323
C324
C457
J7
J304
J1
J2
J3
J4
R301
R302
R303
R304
R305
R306
C301
C302
C351
VR203-1
VR203-2
VR204-1
VR204-2
VR202
Q401
Q402
D11
D12
R234
defeat
on
off
S5
TONE CONTROL
S4
LOUDNESS
(CD DIRECT IND.)
S3
CD DIRECT
BASS
TREBLE
BALANCE
(AMPLIFIER OPERATION MONITOR IND.)
(current drive ind.)(voltage control ind.)
D8
D7
R235
R231
R230
R232
R233
J6
D6
D5
D4
D3
D2
D1
(PHONO IND.)
(TUNER IND.)
(CD IND.)
(AUX IND.)
(TAPE 2/EXT IND.)(TAPE 1/DA TAPE IND.)
LED INDICATOR P.C.B.
TH201
TH202
J4
VR201-2
VR201-1
VOLUME
C
VOLUME P.C.B.


A PHONO EQUALIZER/POWER AMP/ CURRENT DRIVE AMP/MUTING/ PROTECTION CIRCUIT
B LED INDICATOR CIRCUIT
C VOLUME CIRCUIT
D TONE CONTROL/ VOLTAGE CONTROL AMP CIRCUIT
IC101 SVINJM2043DD EQUALIZER AMP.
IC301 µPC4570C TONE AMP.
IC401 AN7062N VOLTAGE AMP.
TONE CONTROL
VOLTAGE CONTROL AMP.
BRIDGE NETWORK
GND
(EG) only
PHONO L ch R ch
TUNER L ch R ch
CD L ch R ch
AUX L ch R ch
TAPE 2 / EXT REC OUT L ch R ch PLAYBACK L ch R ch
TAPE 1 / DA TAPE REC OUT L ch R ch PLAYBACK L ch R ch
S1-1 (PHONO)
S1-2 (TUNER)
S1-3 (CD)
S1-4 (AUX)
S2-2 (TAPE 2/EXT)
S2-1 (TAPE 1/DA TAPE)
source tape 2/ext
source tape1/DA tape
S3 (CD DIRECT)
S4 (LOUDNESS)
S5 (TONE CONTROL) defeat on
VR201-1 100K(B) VR201-2 100K(B) (VOLUME)
VR202 (BALANCE) 100K(G)
VR203-1 100K(C) (BASS)
VR203-2 100K(C) (BASS)
VR204-1 100K(C) (TREBLE)
VR204-2 100K(C) (TREBLE)
TH201 TH202
D11 LN01431PH (CD direct ind.)
D12 MA4033
D8 (CURRENT) LN02131SP
D7 (VOLTAGE) LN02131SP
D1 LN06431GP (tape 1)
D2 LN06431GP (tape 2)
D3 LN06431GP (Aux)
D4 LN06431GP (CD)
D5 LN06431GP (Tuner)
D6 LN06431GP (Phono)
Q401, 402 2SA1123 PRE DRIVE
Q403, 404 2SC1685 ICQ ADJ.
Q405, 406 2SC3311A LIMITER
Q407, 408 2SA1309A LIMITER
Q409, 410 2SC263 AA CLASS
D402 MA162A
D401 MA162A
D414 MA29WATA
D413 MA29WATA
Voltage control amp. ICQ adj. (L ch)
Voltage control amp. ICQ adj. (R ch)
VR301 500(B)
VR302 500(B)
TH401 TH402
J1 J2 J3 J4 J6 J7 J304
VOLTA
1 2 3 4 5 6 7 8 9 10
A B C D E F

SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

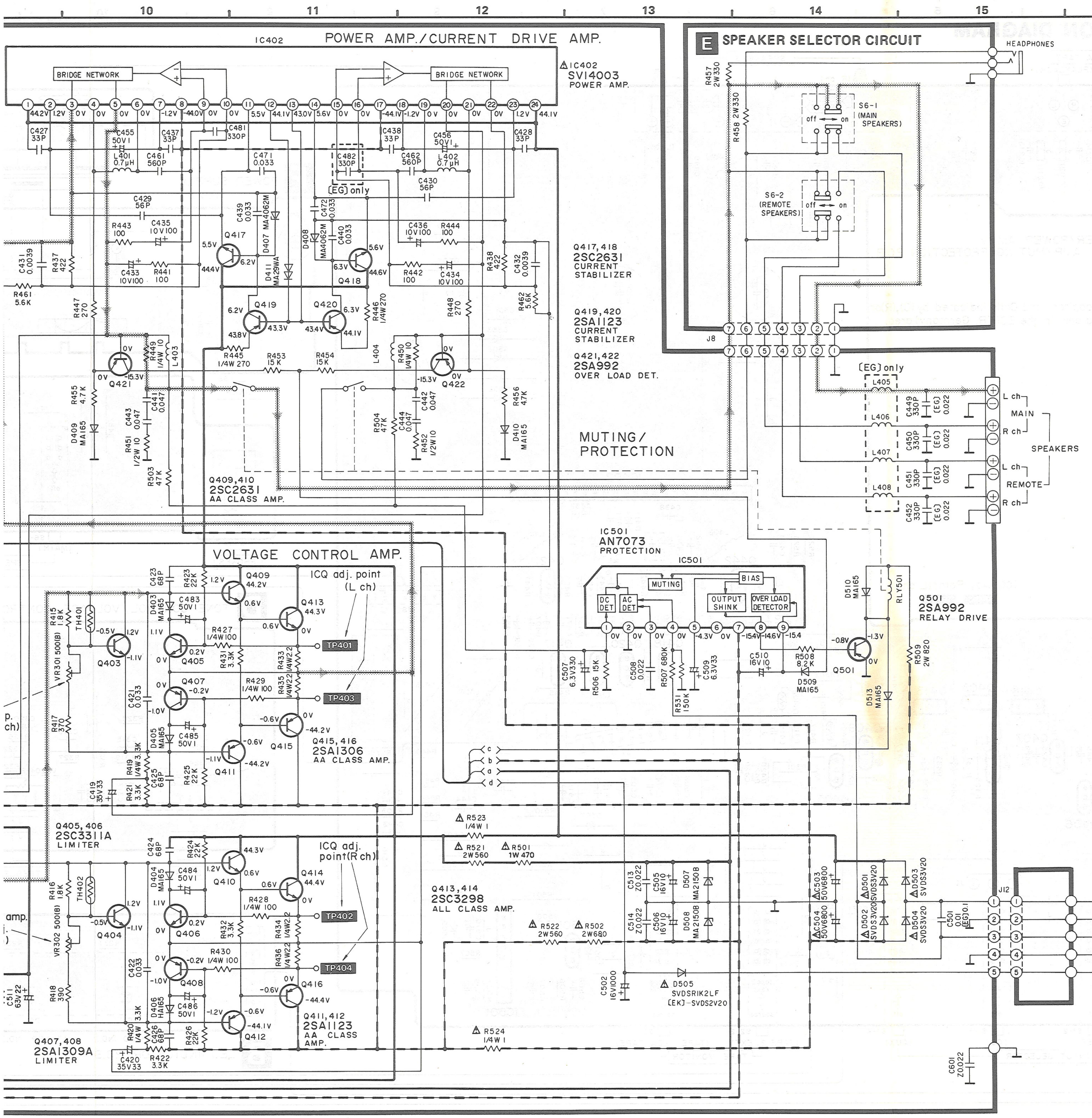
Note:

1. **S1-1 ∼ S1-4:** Input selector switch in "**phono**" position.
   S1-1: phono S1-2: tuner S1-3: CD
   S1-4: aux
2. **S2-1:** Tape 1 monitor switch in "**off**" position.
3. **S2-2:** Tape 2 monitor switch in "**off**" position.
4. **S3:** CD direct switch in "**off**" position.
   (▙ off, ▬ on)
5. **S4:** Lowdness switch in "**off**" position.
   (▙ off, ▬ on)
6. **S5:** Tone control switch in "**defeat**" position.
   (▙ defeat, ▬ on)
7. **S6-1:** Main speaker switch in "**on**" position.
   (▙ off, ▬ on)
8. **S6-2:** Remote speaker switch in "**off**" position.
   (▙ off, ▬ on)
9. **S8:** Power switch in "**on**" position.
   (▙ off, ▬ on)
10. **S701:** Voltage selector switch "**220V**" position.
    (For [XA] area only) (127V ←→ 110V ←→ 220V ←→ 240V)
11. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

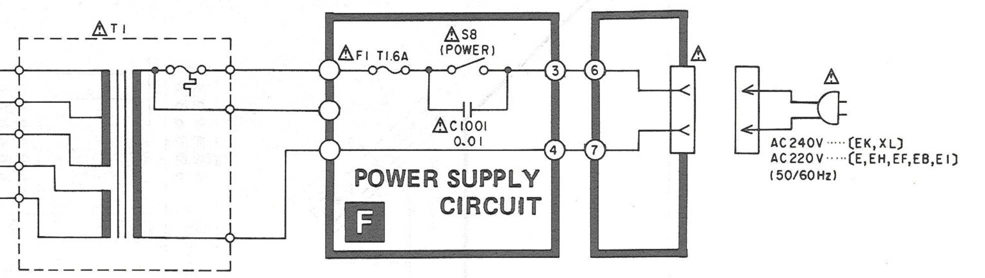
    ⋙⋙⋙⇨ Phono signal (Lch)

    ——— Positive voltage lines, ‒ ‒ ‒ ‒ Nagative voltage lines.

12. Important safety notice:
    Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

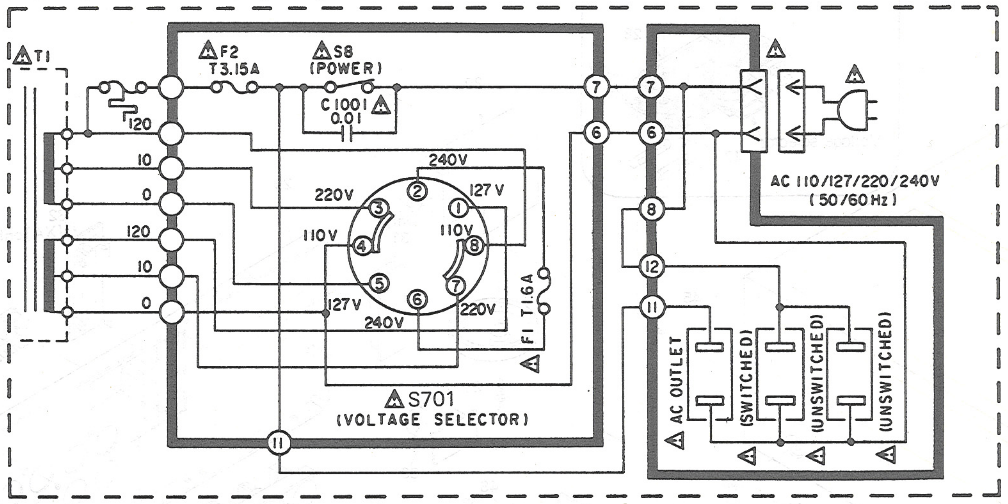


10
11
12
13
14
15
IC402
POWER AMP./CURRENT DRIVE AMP.
BRIDGE NETWORK
BRIDGE NETWORK
⚠IC402
SVI4003
POWER AMP.
E SPEAKER SELECTOR CIRCUIT
HEADPHONES
R457 2W 330
R458 2W 330
S6-1 (MAIN SPEAKERS)
S6-2 (REMOTE SPEAKERS)
off on
C427 33P
C455 50V1
L401 0.7μH
C461 560P
C437 33P
C481 330P
C471 0.033
C482 330P
[EG] only
C438 33P
C462 560P
C456 50V1
L402 0.7μH
C430 56P
C428 33P
C429 56P
C435 10V100
R443 100
C439 0.033
D407 MA4062M
D408 MA4062M
C472 0.033
C440 0.033
C436 10V100
R444 100
C431 0.0039
R437 422
C433 10V100
R441 100
Q417
D411 MA29WA
Q418
R442 100
C434 10V100
R438 422
C432 0.0039
R461 5.6K
R447 270
Q419
Q420
R446 1/4W 270
R448 270
R462 5.6K
Q417,418
2SC2631
CURRENT STABILIZER
Q419,420
2SA1123
CURRENT STABILIZER
Q421,422
2SA992
OVER LOAD DET.
J8
R449 1/4W 10
L403
R445 1/4W 270
R453 15K
R454 15K
L404
R450 1/4W 10
Q421
Q422
R455 4.7K
C441 0.047
C443 0.047
R451 1/2W 10
D409 MA165
R504 47K
C444 0.047
C442 0.047
R452 1/2W10
R456 47K
D410 MA165
MUTING/
PROTECTION
R503 47K
Q409,410
2SC2631
AA CLASS AMP.
[EG] only
L405
L406
L407
L408
C449 330P
C450 330P
C451 330P
C452 330P
0.022
L ch
MAIN
R ch
SPEAKERS
L ch
REMOTE
R ch
IC501
AN7073
PROTECTION
IC501
MUTING
BIAS
DC DET
AC DET
OUTPUT SHINK
OVER LOAD DETECTOR
C507 6.3V330
R506 15K
C508 0.022
R507 680K
C509 6.3V33
R531 150K
C510 16V10
R508 8.2K
D509 MA165
D510 MA165
RLY501
Q501
2SA992
RELAY DRIVE
R509 2W 820
D513 MA165
VOLTAGE CONTROL AMP.
C423 68P
R423 22K
Q409
ICQ adj. point (L ch)
Q413
C483 50V1
D403 MA165
R415 1.8K
TH401
Q403
R427 1/4W 100
Q405
R431 3.3K
R433 1/4W 2.2
TP401
VR301 500(B)
Q407
R429 1/4W 100
R435 1/4W 2.2
TP403
C421 0.033
R417 370
D405 MA165
C485 50V1
Q415
Q415,416
2SA1306
AA CLASS AMP.
R419 1/4W 3.3K
C425 68P
R425 22K
Q411
C419 35V33
R421 3.3K
c
b
a
d
⚠R523 1/4W 1
⚠R521 2W 560
⚠R501 1W 470
Q405,406
2SC3311A
LIMITER
C424 68P
R424 22K
Q410
ICQ adj. point(R ch)
Q414
C484 50V1
D404 MA165
R416 1.8K
TH402
Q404
R428 1/4W 100
Q406
R432 3.3K
R434 1/4W 2.2
TP402
VR302 500(B)
Q408
R430 1/4W 100
R436 1/4W 2.2
TP404
C422 0.033
R418 390
C511 63V 22
D406 MA165
C486 50V1
Q416
Q412
Q411,412
2SA1123
AA CLASS AMP.
Q413,414
2SC3298
ALL CLASS AMP.
⚠R522 2W560
⚠R502 2W680
C513 Z0.022
C505 16V10
D507 MA2150B
C514 Z0.022
C506 16V10
D508 MA2150B
⚠C503 50V6800
⚠D501 SVD53V20
⚠D503 SVD53V20
⚠C504 50V6800
⚠D502 SVD53V20
⚠D504 SVD53V20
C501 0.01 [EG]
J12
C502 16V1000
⚠D505 SVDSRIK2LF [EK]–SVDS2V20
⚠R524 1/4W 1
Q407,408
2SA1309A
LIMITER
C420 35V33
R422 3.3K
R420 1/4W
C426 68P
R426 22K
C601 Z0.022



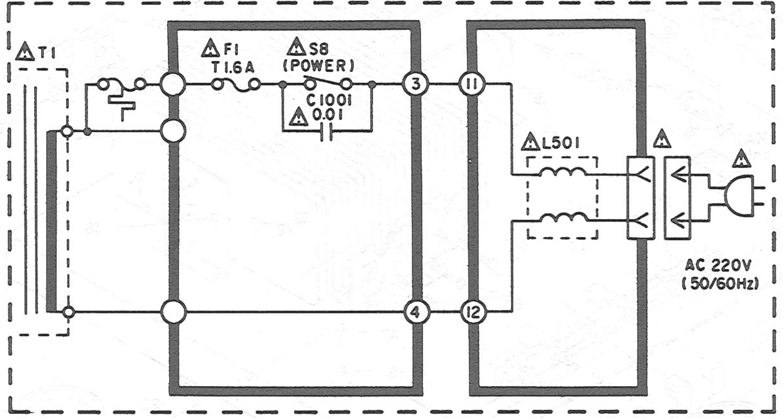
⚠T1
⚠F1 T1.6A
⚠S8 (POWER)
⚠C1001 0.01
POWER SUPPLY CIRCUIT
F
⚠
AC240V……[EK,XL]
AC220V……[E,EH,EF,EB,EI]
(50/60Hz)

For other areas (XA)



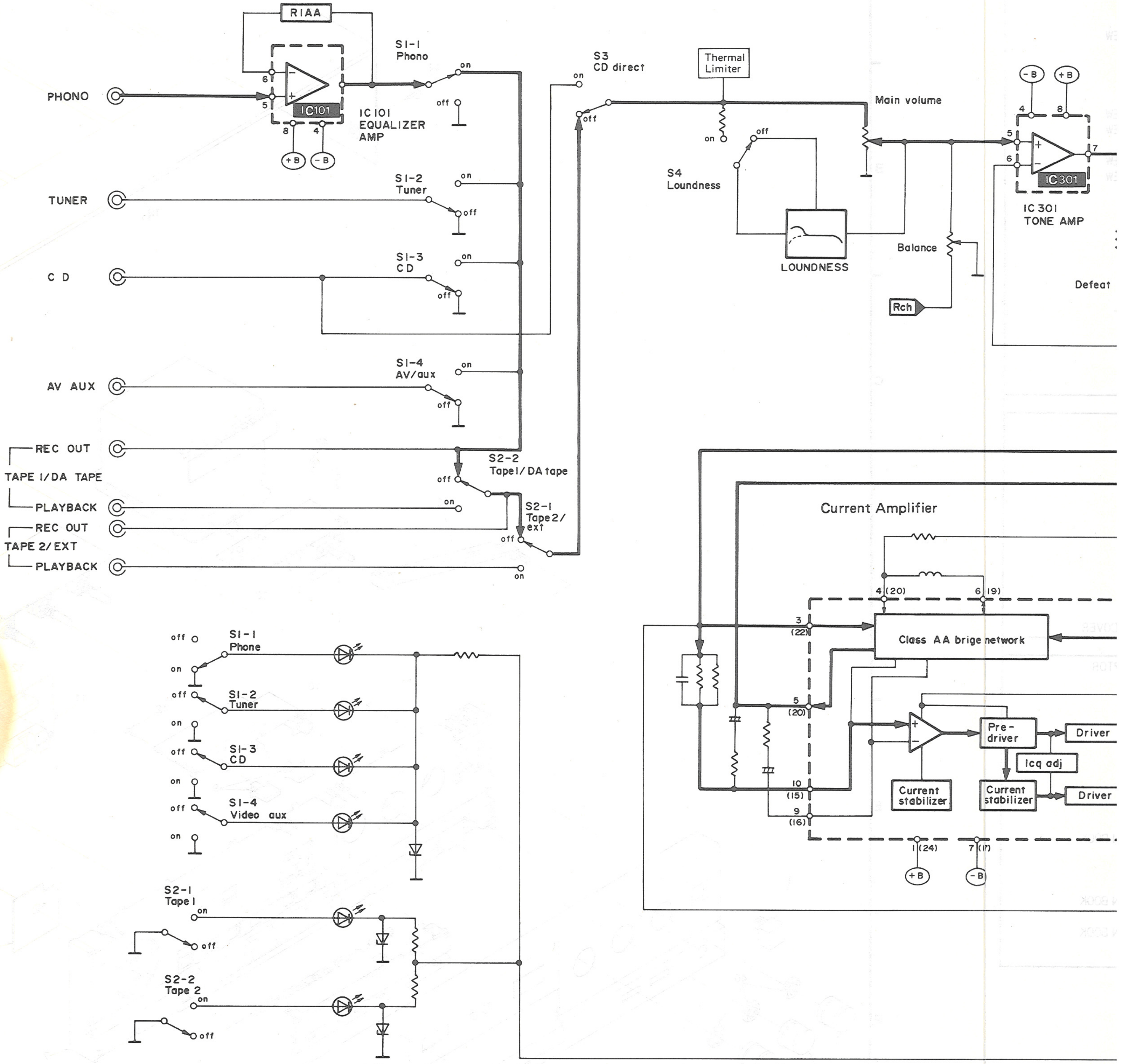
T1
F2 T3.15A
S8 (POWER)
C1001 0.01
120
10
0
120
10
0
240V
220V
127 V
110V
110V
127V
220V
240V
F1 T1.6A
S701 (VOLTAGE SELECTOR)
AC 110/127/220/240V (50/60Hz)
AC OUTLET
(SWITCHED)
(UNSWITCHED)
(UNSWITCHED)
7
6
8
12
11

For F.R Germany (EG)

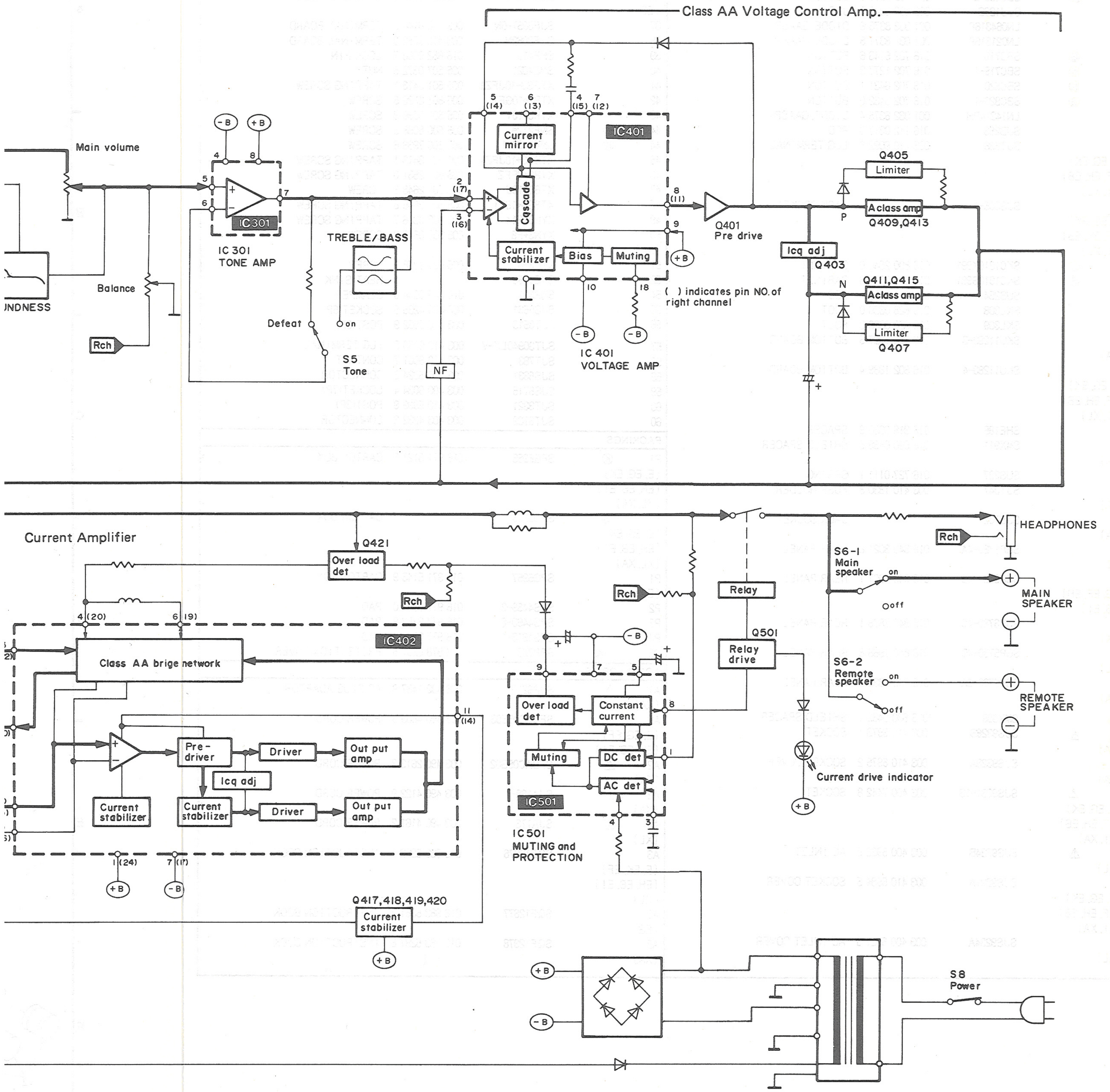


T1
F1 T1.6A
S8 (POWER)
C1001 0.01
L501
AC 220V (50/60Hz)
3
4
11
12

BLOCK DIAGRAM



RIAA
PHONO
IC101
IC101 EQUALIZER AMP
S1-1 Phono
on
off
TUNER
S1-2 Tuner
C D
S1-3 CD
AV AUX
S1-4 AV/aux
REC OUT
TAPE 1/DA TAPE
PLAYBACK
REC OUT
TAPE 2/EXT
PLAYBACK
S2-2 Tape1/DA tape
S2-1 Tape2/ext
S3 CD direct
Thermal Limiter
S4 Loundness
LOUNDNESS
Main volume
Balance
Rch
IC301
IC301 TONE AMP
Defeat
+B
-B
Current Amplifier
Class AA brige network
Pre-driver
Driver
Icq adj
Current stabilizer
Current stabilizer
Driver
4 (20)
6 (19)
3 (22)
5 (20)
10 (15)
9 (16)
1 (24)
7 (17)
S1-1 Phone
S1-2 Tuner
S1-3 CD
S1-4 Video aux
S2-1 Tape 1
S2-2 Tape 2


Class AA Voltage Control Amp.
Main volume
IC301
IC 301
TONE AMP
TREBLE/BASS
Balance
Defeat
on
S5
Tone
Rch
NF
-B
+B
Current mirror
Cascode
Current stabilizer
Bias
Muting
IC401
IC 401
VOLTAGE AMP
( ) indicates pin NO. of right channel
Q401
Pre drive
Icq adj
Q403
Q405
Limiter
Aclass amp
Q409, Q413
Q411, Q415
Q407
P
N
Current Amplifier
Q421
Over load det
IC402
Class AA brige network
Pre-driver
Driver
Out put amp
Icq adj
Current stabilizer
Q417, 418, 419, 420
Over load det
Constant current
Muting
DC det
AC det
IC501
IC501
MUTING and PROTECTION
Relay
Q501
Relay drive
Current drive indicator
S6-1
Main speaker
S6-2
Remote speaker
on
off
MAIN SPEAKER
REMOTE SPEAKER
HEADPHONES
S8
Power
UNDNESS

REPLACEMENT PARTS LIST

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	102
Type	Wattage	Shape	Tolerance	Value

ERX	2	AN	J	471
Type	Wattage	Shape	Tolerance	Value 47x10¹ (ohm)

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Peculiarity

ECEA	50	M	330
Type	Voltage	Peculiarity	Value (33x10° microfarad)

Resistor Type	Wattage	Tolerance
ERD : Carbon ERG : Metal Oxide ERX : Metal Film ERQ : Fuse Type Metal ERD ⁚⁚ L : Carbon (chip) ERO ⁚⁚ K : Metal Film (chip) ERC : Solid	10 : 1/8W 12 : 1/2W 25 : 1/4W 1A : 1W 18 : 1/8W S2 : 1/4W S1 : 1/2W 2F : 1/4W 50 : 1/2W 2A : 2W	J : ±5% F : ±1% G : ±2% K : ±10%

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic ECCD : Ceramic ECKD : Ceramic ECQM : Polyester ECQP : Polyproylene ECG : Ceramic ECEA□□□N: Non Polar Electrolytic QCU□ : Ceramic (Chip Type) ECUX : Ceramic (Chip Type) ECF : Semiconductor EECW : Liquid electrolyte double layer capcitor	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1H : 50V 1V : 35V 50 : 50V 05 : 50V 2H : 500V 2A : 100V 1 : 100V KC : 400V AC KC : 125VAC (UL) 1J : 63V	C : ±0.25pF J : ±5% K : ±10% Z : +80% −20% P : +100% −0% M : ±20% D : ±0.5pF G : ±2%

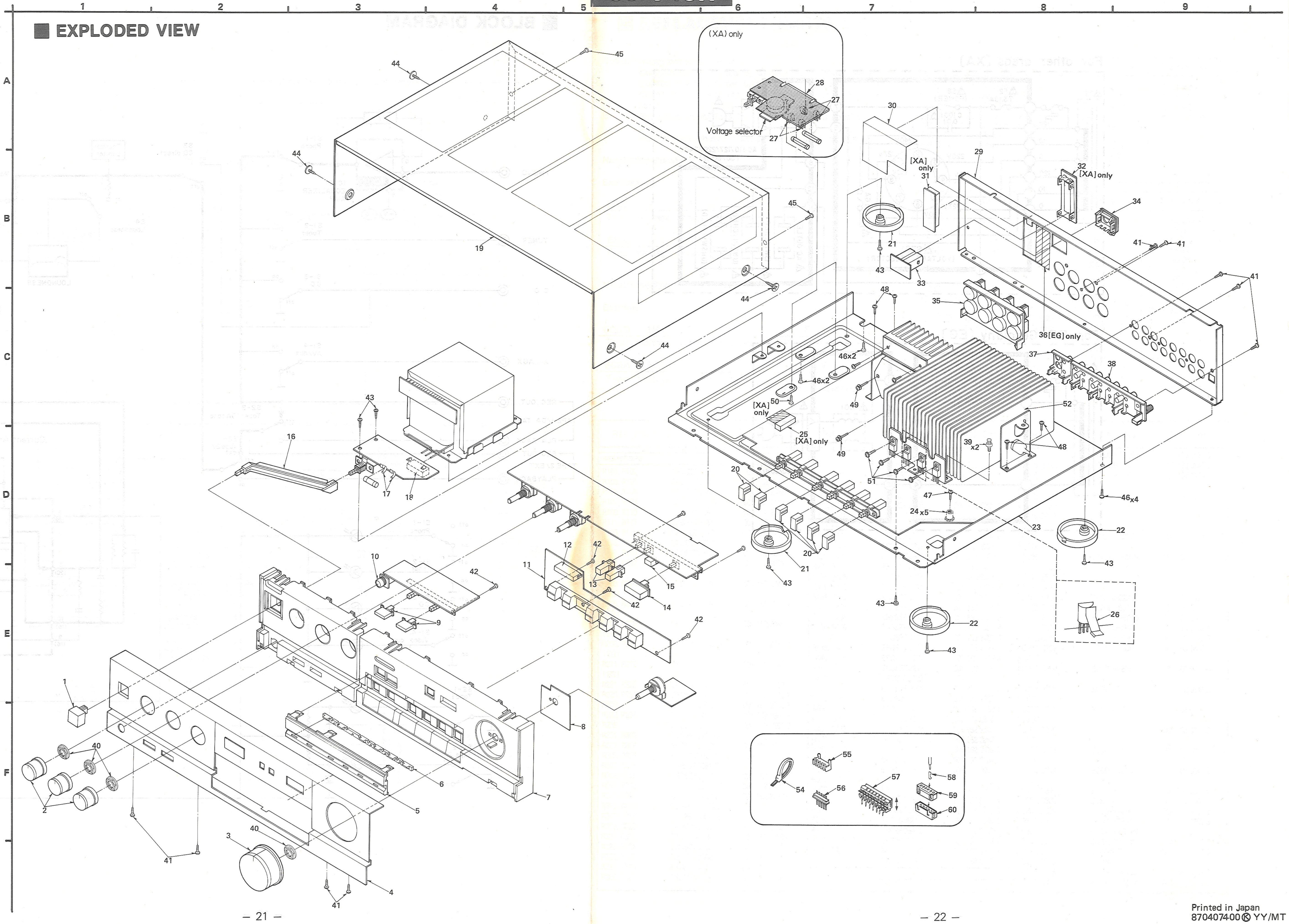
Ref. No.	Part No.	Part Code
RESISTORS		
R101, R102	ERDS2TJ391	001 152 2360 6
R103, R104	ERDS2TJ224	001 152 2433 6
R105, R106	ERDS2TJ563	001 152 2446 1
R107, R108	ERDS2TJ271	001 152 2435 4
R109, R110	ERDS2TJ680	001 152 2448 9
R111, R112	ERDS2TJ184	001 152 2588 8
R113, R114	ERDS2TJ123	001 152 2424 7
R115, R116	ERDS2TJ563	001 152 2446 1
R117, R118	ERDS2TJ102	001 152 2346 4
R201, R202 (EG)	ERDS2TJ471	001 152 2361 5
R203, R204 (EG)	ERDS2TJ102	001 152 2346 4
R205, R206 (EG)	ERDS2TJ102	001 152 2346 4
R207, R208 (EG)	ERDS2TJ102	001 152 2346 4
R209, R210 (EG)	ERDS2TJ102	001 152 2346 4
R211, R212 (EG)	ERDS2TJ102	001 152 2346 4
R221, R222	ERDS2TJ224	001 152 2433 6
R230, R231	ERDS2TJ331	001 152 2356 2
R232	ERDS2TJ331	001 152 2356 2
R233, R234	ERDS2TJ391	001 152 2360 6
R235	ERDS2TJ331	001 152 2356 2
R301, R302	FSR25TJ272T2	
R303, R304	ERDS2TJ473	001 152 2363 3
R305, R306	ERDS2TJ183	001 152 2429 2
R307, R308	FSR25TJ561T2	
R309, R310	ERDS2TJ154	001 152 2427 4
R311, R312	ERDS2TJ224	001 152 2433 6
R313, R314	ERDS2TJ224	001 152 2433 6
R315, R316	FSR25TJ223T2	
R317, R318	FSR25TJ392T2	
R319, R320	ERDS2TJ223	001 152 2432 7
R321, R322	ERDS2TJ392	001 152 2439 0
R323, R324	ERDS2TJ183	001 152 2429 2
R325, R326	ERDS2TJ562	001 152 2445 2
R327, R328	ERDS2TJ102	001 152 2346 4
R329, R330	ERDS2TJ334	001 152 2438 1
R401, R402	FSR25TJ102T2	
R403, R404	ERDS2TJ823	001 152 2456 9
R405, R406	ERDS2TJ561	001 152 2364 2
R407, R408	FSR25TJ272T2	
R409, R410	FSR25TJ823T2	
R413, R414	ERD25FJ470	001 152 0309 7
R415, R416	ERDS2TJ182	001 152 2352 6
R417, R418	ERDS2TJ391	001 152 2360 6
R419, R420	ERD25FJ332	001 152 0287 6
R421, R422	ERDS2TJ332	001 152 2357 1
R423, R424	ERDS2TJ223	001 152 2432 7
R425, R426	ERDS2TJ223	001 152 2432 7
R427, R428	ERD25FJ101	001 152 0214 3
R429, R430	ERD25FJ101	001 152 0214 3
R431, R432	ERDS2TJ332	001 152 2357 1
R433, R434	ERD25FJ2R2	001 152 0251 8
R435, R436	ERD25FJ2R2	001 152 0251 8
R437, R438	ER0S2TKF4220	001 151 5927 2
R441, R442	ERDS2TJ101	001 152 2421 0
R443, R444	ERDS2TJ101	001 152 2421 0
R445, R446	ERD2FCG271	001 152 6537 3
R447, R448	ERDS2TJ271	001 152 2435 4
R449, R450	ERD25FJ100	001 152 0213 4
R451, R452	ERDS1FJ100	001 152 2612 5
R453, R454	ERDS2TJ153	001 152 2351 7
R455, R456	ERDS2TJ472	001 152 2362 4
R457, R458	ERG2SJ331	001 151 3570 9
R461, R462	ERDS2TJ562	001 152 2445 2
R470	ERDS2TJ473	001 152 2363 3
R481, R482	ERDS2TJ824	001 152 2457 8
R501 ⚠	ERG2SJ681	001 151 3164 9
R502 ⚠	ERG1ANJ471	001 151 0071 5
R503, R504	ERDS2TJ473	001 152 2363 3
R506	ERDS2TJ153	001 152 2351 7
R507	ERDS2TJ684	001 152 2451 4
R508	ERDS2TJ822	001 152 2455 0
R509	ERG2SJ821	001 151 4940 9
R510	ERD2FCG470	001 152 0197 7
R521, R522 ⚠	ERG2SJ561	001 151 3163 0
R523, R524 ⚠	ERD25FJ1R0	001 152 0208 1
R531	ERDS2TJ154	001 152 2427 4
CAPACITORS		
C101, C102	ECEA1HPS3R3	001 120 6064 3
C103, C104	ECCD1H101K	001 103 0341 2
C105 (EG)	ECKD1H102KB	001 103 1414 8
C105 (E, EK, EF) (EH, EB, EI) (XL, XA)	ECKD1H391KB	001 103 1544 9
C106 (EG)	ECKD1H102KB	001 103 1414 8
C106 (E, EK, EF) (EH, EB, EI) (XL, XA)	ECKD1H391KB	001 103 1544 9
C107, C108	ECQM1H223JZ	001 106 0739 9
C109, C110	ECQM1H682JZ	001 106 0832 3
C111, C112	ECEA1HPS010	001 120 6063 4
C113, C114	ECEA0JU330	001 120 3162 4
C115, C116	ECKD1H103PF	001 103 1449 7
C201, C202 (EG)	ECCD1H180KC	001 103 0448 2
C203, C204 (EG)	ECCD1H181K	001 103 0466 0
C205, C206 (EG)	ECCD1H101K	001 103 0341 2
C207, C208 (EG)	ECCD1H101K	001 103 0341 2
C209, C210 (EG)	ECCD1H101K	001 103 0341 2
C211, C212 (EG)	ECCD1H101K	001 103 0341 2
C213, C214 (EG)	ECCD1H101K	001 103 0341 2
C301, C302	ECQM1H563JZ	001 106 0827 0
C303, C304	ECEA1HPS3R3	001 120 6064 3
C305, C306	ECCD1H101K	001 103 0341 2
C307, C308	ECCD1H820K	001 103 0703 6
C309, C310	ECEA1VPS4R7	
C311, C312	ECEA1CPS100	001 120 6036 7
C313, C314	ECCD1H390K	001 103 0597 0
C315, C316	ECQM1H153JZ	001 106 0704 0
C317, C318	ECQM1H823JZ	001 106 0852 9
C319, C320	ECQM1H272JZ	001 106 0753 1

Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code	Ref. No.	Part No.	Part Code
C321, C322	ECQM1H183JZ	001 106 0723 7	C449	ECKD1H331KB	001 103 1523 4	C471, C472	ECKD1H333PF	001 103 1539 6
C323, C324	ECKD1H333PF	001 103 1539 6	(E, EK, EF)			C481, C482	ECKD1H331KB	001 103 1523 4
C351	ECEA0JU101	001 120 2829 8	(EH, EB, EI)			C483, C484	ECEA1HU010	001 120 2842 1
C401, C402	ECEA1HPS3R3	001 120 6064 3	(XL, XA)			C485, C486	ECEA1HU010	001 120 2842 1
C403, C404	ECKD1H271KB	001 103 1515 4	C450	ECKD1H223PF	001 103 1510 9	C501	ECKD2H103PE	001 103 1626 8
C405, C406	ECCD1H820K	001 103 0703 6	(EG)			(E, EK, EF)		
C407, C408	ECKD1H681K	001 103 1580 5	C450	ECKD1H331KB	001 103 1523 4	(EH, EB, EI)		
C409, C410	ECEA1CPS220	001 120 6060 7	(E, EK, EF)			(XL, XA)		
C411, C412	ECCD1H070CC	001 103 0271 9	(EH, EB, EI)			C501	ECQE2104MS	001 106 2217 2
C413, C414	ECKD1H102KB	001 103 1414 8	(XL, XA)			(EG)		
C415, C416	ECCD1H120KC	001 103 0370 7	C451	ECKD1H223PF	001 103 1510 9	C502	ECEA16V1000	001 120 2545 7
C419, C420	ECEA1VU330	001 120 3273 8	(EG)			C503, C504 ⚠	ECES1HV682UM	
C421, C422	ECKD1H333PF	001 103 1539 6	C451	ECKD1H331KB	001 103 1523 4	C505, C506	ECEA1CU100	001 120 2905 3
C423, C424	ECCD1H680K	001 103 0682 4	(E, EK, EF)			C507	ECEA0JS331	001 120 2975 9
C425, C426	ECCD1H680K	001 103 0682 4	(EH, EB, EI)			C508	ECFTD223KXL	001 108 0342 6
C427, C428	ECCD1H330K	001 103 0567 6	(XL, XA)			C509	ECEA0JU330	001 120 3162 4
C429, C430	ECCD1H560K	001 103 0660 0	C452	ECKD1H223PF	001 103 1510 9	C510	ECEA1CU100	001 120 2905 3
C431, C432	ECQM1H392JZ	001 106 0790 6	(EG)			C511	ECEA1JU220	001 120 3779 7
C433, C434	ECEA1AU101	001 120 2830 5	C452	ECKD1H331KB	001 103 1523 4	C513, C514	ECKD1H223PF	001 103 1510 9
C435, C436	ECEA1AU101	001 120 2830 5	(E, EK, EF)			C601	ECKD1H223PF	001 103 1510 9
C437, C438	ECCD1H330K	001 103 0567 6	(EH, EB, EI)			C1001 ⚠	ECKDNS103ZV	001 103 6921 4
C439, C440	ECKD1H333PF	001 103 1539 6	(XL, XA)			(EK)		
C441, C442	ECQM1H473JZ	001 106 0810 9	C453, C455	ECEA1HU010	001 120 2842 1	C1001 ⚠	ECKWNS103ZVS	001 103 9317 6
C443, C444	ECQM1H473JZ	001 106 0810 9	C456	ECEA1HU010	001 120 2842 1	(E, EG, EF)		
C449	ECKD1H223PF	001 103 1510 9	C457	ECKD1H333PF	001 103 1539 6	(EH, EB, EI)		
(EG)			C461, C462	ECKD1H561KB	001 103 1576 1	(XL, XA)		

Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS			
IC101	SVINJM2043DD	001 060 4244 2	I.C., EQUALIZER
IC301	SVIUPC4570C	001 060 8992 7	I.C., EQUALIZER, TONE AMP
IC401	AN7062N	001 060 8240 0	I.C., AMP
IC402 ⚠	SVI4003	001 061 0887 4	I.C., POWER AMP
IC501	AN7073	001 060 8241 9	I.C., PROTECTION
TRANSISTORS			
Q401, Q402	2SA1123-R	001 030 0242 8	TRANSISTOR
Q403, Q404	2SC1685-QNC	001 030 2729 2	TRANSISTOR
Q405, Q406	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q407, Q408	2SA1309Q	001 030 4058 0	TRANSISTOR
Q409, Q410	2SC2631-Q	001 030 2505 6	TRANSISTOR
Q411, Q412	2SA1123R	001 030 0242 8	TRANSISTOR
Q413, Q414	2SC3298AY	001 030 4986 9	TRANSISTOR
Q415, Q416	2SA1306AY	001 030 4845 1	TRANSISTOR
Q417, Q418	2SC2631-Q	001 030 2505 6	TRANSISTOR
Q419, Q420	2SA1123R	001 030 0242 8	TRANSISTOR
Q421, Q422	2SA992E	001 030 0513 4	TRANSISTOR
Q501	2SA992E	001 030 0513 4	TRANSISTOR
DIODES			
D12	MA4033M	001 032 5623 9	DIODE
D401, D402	MA162A	001 032 0493 1	DIODE
D403, D404	MA165	001 032 0494 0	DIODE
D405, D406	MA165	001 032 0494 0	DIODE
D407, D408	MA4062-M	001 032 7211 7	DIODE
D409, D410	MA165	001 032 0494 0	DIODE
D411, D413	MA29WA	001 032 7250 0	DIODE
D414	MA29WA	001 032 7250 0	DIODE
D501, D502 ⚠	SVDS3V40	001 032 1347 6	RECTIFIER
D503, D504 ⚠	SVDS3V40	001 032 1347 6	RECTIFIER
D505	SVDSR1K2	001 032 1343 0	DIODE
(E, EG, EF)			
(EH, EB, EI)			
(XL, XA)			
D505 ⚠	SVDS2V20	001 032 1343 0	RECTIFIER
(EK)			
D507, D508	MA2150B	001 032 0499 5	DIODE
D509, D510	MA165	001 032 0494 0	DIODE
D513	MA165	001 032 0494 0	DIODE
VARIABLE RESISTORS			
VR201	EWJKXA090B15	001 174 8555 1	VARIABLE RESISTER, MAIN
VR202	EWHUAA008G15	001 174 8553 3	VARIABLE RESISTER, BALANCE
VR203, VR204	EWCSEA020C15	001 174 8552 4	VARIABLE RESISTOR, BASS
VR301, VR302	EVNK6AA00B52	001 180 0496 1	VARIABLE RESISTER, CONTROL
THERMISTORS AND VARISTORS			
TH201, TH202	ERTD2WHL104S		THERMISTOR
TH401, TH402	ERTD2WHL104S		THERMISTOR
COILS AND TRANSFORMERS			
L401, L402	SLQY07G-40	001 211 2149 9	CHOKE COIL
L403, L404	SLQY18G-10	001 211 2185 5	CHOCK COIL
L405, L406	SLQY07G-40	001 211 2149 9	CHOKE COIL
(EG)			
L407, L408	SLQY07G-40	001 211 2149 9	CHOKE COIL
(EG)			
L501	SLQZ650MH49	001 210 7126 1	COIL
(EG)			
T1 ⚠	SLT5N464	001 202 9075 3	POWER TRANSFORMER
(E, EG, EF)			
(EH, EB, EI)			
T1 ⚠	SLT5N465	001 202 9076 2	POWER TRANSFORMER
(EK, XL)			
T1 ⚠	SLT5N466	001 202 9101 8	POWER TRANSFORMER
(XA)			
FUSES			
F1 ⚠	XBA2C16TB0	002 380 1377 1	FUSE, T1.6A250V
(EK)			
F1 ⚠	XBA2C16TR0	002 380 0408 5	FUSE, T1.6A250V
(E, EG, EF)			
(EH, EB, EI)			
(XL, XA)			
F2 ⚠	XBA2C31TR0	002 380 0415 6	FUSE 250V, T3.15A
(XA)			
SWITCHES			
S1	ESE37263	003 430 2327 2	SWITCH
S1	SSH4102	003 435 5648 1	SWITCH, INPUT
S2	SSH2111	003 435 5644 5	SWITCH, INPUT
S3, S4	SSH3703	003 435 5647 2	SWITCH, CD
S5	SSH3703	003 435 5647 2	SWITCH, TONE
S6-1, S6-2	SSH2112	003 435 5645 4	SWITCH, SPEAKER
S8 ⚠	ESB8215V	003 435 4958 4	PUSH SWITCH
S701 ⚠	ESE37263	003 430 2327 2	SWITCH, AC VOLT
(XA)			
RELAYS			
LY501	SSY126	003 450 2686 0	RELAY
CABINET AND CHASSIS			
1 Ⓢ	SBC666	016 702 5545 6	BUTTON, POWER
1 Ⓚ	SBC666-5	016 702 6679 9	BUTTON, POWER
2 Ⓚ	SBN1206	016 700 1846 2	KNOB
2 Ⓢ	SBN1207-1	016 700 1845 3	KNOB
3 Ⓚ	SBN1227	016 700 2002 4	KNOB
3 Ⓢ	SBN1227-1	016 700 2003 3	KNOB
4 Ⓚ	SGWUV45A-KE	016 840 7885 0	FRONT PANEL
4 Ⓢ	SGWUV45A-SE	016 840 7884 1	FRONT PANEL
5	SGX7913	016 846 3858 9	ORNAMENT
6	SGL246	016 846 3894 5	ORNAMENT
7 Ⓚ	SGXUV45A-KE	016 846 3905 9	ORNAMENT
7 Ⓢ	SGXUV45A-SE		ORNAMENT
8	SMC6407-1	016 601 0633 9	SHIELD COVER

Ref. No.	Part No.	Part Code	Description
9 Ⓢ	SBC439	016 702 0595 6	BUTTON
9 Ⓚ	SBC439-2	016 702 6011 7	BUTTON
10	SJJ126B	003 400 5920 7	JACK
11	LN064316P	001 032 8373 6	DIODE, GAASP
12	LN021315P	001 032 8371 8	DIODE, GAASP
13 Ⓢ	SBC719	016 702 6143 6	BUTTON
13 Ⓚ	SBC719-1	016 702 1277 3	BUTTON
14 Ⓚ	SBC820	016 702 6431 1	BUTTON
14 Ⓢ	SBC820-1	016 702 6432 0	BUTTON
15	LN14314PH	001 032 8375 4	DIODE, GAASP
16	SUB253	016 712 0317 0	ROD
17	SJT388	003 410 6092 8	LUG TERMINAL
(E, EG, EK)			
(EF, EH, EB)			
(EI, XL)			
18	SJS305-1		JACK.SOCKET
(E, EG, EK)			
(EF, EH, EB)			
(EI, XL)			
19 Ⓚ	SKC1910K991	016 800 2546 0	CABINET
19 Ⓢ	SKC1910S981	016 800 2548 8	CABINET
20	SUB254	016 712 0318 9	ROD
21	SKL308	016 828 0330 0	FOOT
22	SKL309	016 828 0329 3	FOOT
23	SKU11280-3	016 802 1927 5	BOTTOM BOARD
(XA)			
23	SKU11280-4	016 802 1889 4	BOTTOM BOARD
(E, EG, EK)			
(EF, EH, EB)			
(EI, XL)			
24	SHE185	016 918 0330 9	SPACER
25	SMX911	016 600 0488 5	SHIELD SPACER
(XA)			
26	SUS227	016 727 0111 1	SPRING
27	SJT347	003 410 1830 8	FUSE HOLDER
(XA)			
28	SJS702-1		JACK.SOCKET
(XA)			
29	SGP6780-4A	016 840 8021 6	REAR PANEL
(E)			
29	SGP6780-4B	016 840 7907 1	REAR PANEL
(EG, EF, EH)			
(EB, EI)			
29	SGP6780-4C	016 840 7868 1	REAR PANEL
(EK)			
29	SGP6780-4D	016 840 7968 8	REAR PANEL
(XL)			
29	SGP6780-5A	016 840 7832 3	REAR PANEL
(XA)			
30	SMX909	016 600 0482 1	SHIELD SPACER
31 ⚠	SJS9328B	003 410 6976 1	SOCKET
(XA)			
32	SJS9328A	003 410 6975 2	SOCKET COVER
(XA)			
33 ⚠	SJS9231-1B	003 400 7442 8	SOCKET
(E, EG, EK)			
(EF, EH, EB)			
(EI, XA)			
33 ⚠	SJS9234B	003 400 5922 5	AC INLET
(XL)			
34	SJS9231A	003 410 5984 5	SOCKET COVER
(E, EG, EK)			
(EF, EH, EB)			
(EI, XA)			
34	SJS9234A	003 400 5921 6	AC INLET COVER
(XL)			
35	SJF4818-1	003 410 7347 0	TERMINAL BOARD
36	SMX477-1	016 600 0501 5	SHIELD SPACER
(EG)			
37	SJF3057-5N	003 410 6144 3	TERMINAL BOARD
38	SJF3062N	003 410 6082 0	TERMINAL BOARD
39	SHR415	016 652 0088 7	LOCK PIN
40	SNE4021	005 507 0372 5	NUT
41	XTBS3+10JFZ1	005 501 3413 1	TAPPING SCREW
42	XTB3+10GFR	005 501 3126 5	SCREW
43	XTW3+10T	005 501 0996 9	SCREW
44 Ⓢ	SNE2129	005 500 8058 5	SCREW
44 Ⓚ	SNE2129-1	005 500 7938 6	SCREW
45	XTBS3+10JFZ1	005 501 3413 1	TAPPING SCREW
46	XTB3+8FFZ	005 501 2531 0	TAPPING SCREW
47	XTB3+16J	005 501 2648 8	SCREW
48	XTBS3+16F1	005 501 2606 8	TAPPING SCREW
49	XYN3+F14	005 503 0346 7	TAPPING SCREW
50	XYN3+F8	005 503 0513 0	SCREW
(XA)			
51	XTW3+8T	005 501 1358 9	SCREW
52	SXE1159		HEAT SINK
54	SHR301	016 645 0044 0	CLAMPER
55	SJS5531	003 400 4285 5	SOCKET 5P
56	SJT3513	003 410 6952 9	POST(5P)
57	SJT30940LX-V	003 410 6150 5	LUG TERMINAL
58	SJT783	003 410 6001 7	CONTACT
59	SJS5331	003 400 5924 3	CONNECTOR
59	SJS5715	003 400 6034 4	SOCKET(7P)
60	SJT3321	003 410 5999 8	POST(3P)
60	SJT3709	003 403 4232 3	CONNECTOR
PACKINGS			
P1 Ⓚ	SPG5955	016 971 5121 5	CARTON BOX
(E, EG, EK)			
(EH, EB, EI)			
(XL, XA)			
P1 Ⓢ	SPG5956		CARTON BOX
(E, EG, EK)			
(EH, EB, EI)			
(XL, XA)			
P1	SPG5957	016 971 5143 9	CARTON BOX
(EF)			
P2	SPS4459-3	016 977 3352 0	PAD
P3	SPS4460-8	016 977 3353 9	PAD
P4	SPS4613-1	016 977 2865 4	PAD
P5 Ⓚ	SPP723	016 978 0207 5	PROTECTION COVER
ACCESSORIES			
A1 ⚠	SJP9215	003 402 1437 9	AC PLUG ADAPTOR
(XA)			
A2 ⚠	SFDAC05E03	003 490 4809 5	POWER CORD
(E, EG, EF)			
(EH, EB, EI)			
A2 ⚠	SFDAC05G02	003 490 2613 3	POWER CORD
(EK)			
A2 ⚠	SJA168-1	003 490 4122 9	POWER CORD
(XA)			
A2 ⚠	SJA173	003 490 4161 2	POWER CORD
(XL)			
A3	SQF12876	016 983 5262 7	INSTRUCTION BOOK
(E, EK, EF)			
(EH, EB, EI)			
(XL)			
A3	SQF12877	016 983 5351 7	INSTRUCTION BOOK
(EG)			
A3	SQF12878	016 983 5287 8	INSTRUCTION BOOK
(XA)			

EXPLODED VIEW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